

ABSTRACT

A reference vehicle (105-REF) includes a transceiver (205) and processing logic (230). The transceiver (205) couples to at least one antenna (210). The processing logic (230) determines a vector between the reference vehicle (105-REF) and a target vehicle (105-1) in a global coordinate system and translates the vector into a vehicle coordinate system that is referenced to the reference vehicle to produce a translated vector. The processing logic (230) further performs at least one of antenna selection, antenna steering and antenna gain calculation, based on the translated vector, to communicate with the target vehicle via the at least one antenna (210).